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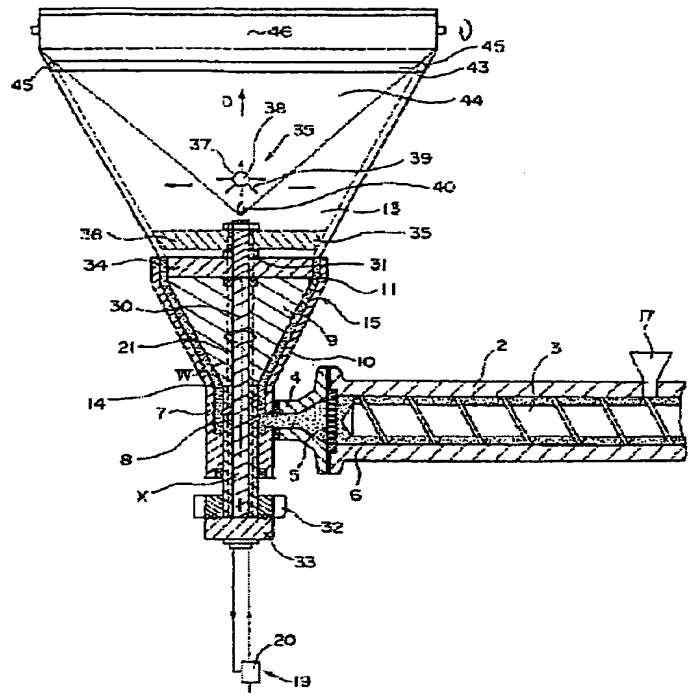
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TITLE : METHOD AND APPARATUS FOR
MANUFACTURING STAPLE FIBER-
CONTAINING RUBBER SHEET



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method and apparatus for manufacturing a staple fiber-containing rubber sheet, capable of applying stretching force and shearing force to a staple fiber-containing rubber in the circumferential direction thereof so as to gradually increase them toward a discharge port to extrude a cylindrical molded object wherein staple fibers are oriented in the circumferential direction and further easily forming the cylindrical molded object immediately after extrusion into a sheet.

SOLUTION: The inner die 9 connected to a mandrel 8 is formed into a conical shape gradually expanded in its diameter toward the discharge port 11 and this inner die 9 is housed in an outer die 10. The inner die 10 is rotated centering around its axis to apply stretching force and shearing force to the staple fiber-containing rubber so as to gradually increase the same toward the discharge port in the circumferential direction thereof to extrude and mold the cylindrical molded object wherein the staple fibers are oriented in the circumferential direction. A linear slit part 51 is axially formed in the surface layer of the extruded cylindrical molded object 13 and tension is further applied to the slitted cylindrical molded object in the circumferential direction thereof to expand the slitted cylindrical molded object and the cylindrical molded object is cut along the linear slit part 51 by a cutting means 40 to be formed into a sheet.

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